

Patent Abstracts of Japan

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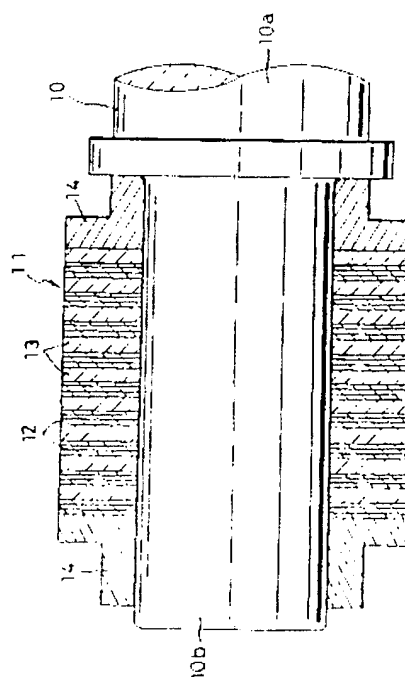
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TITLE : ROTOR



ABSTRACT : PURPOSE: To protect a soft magnetic part from breakdown when it is assembled by laminating an yet sintered soft magnetic disc part made of amorphous magnetic material and having the thickness of 25-40 μ m around a shaft.

CONSTITUTION: A small diameter section 10b is formed integrally at one end of the large diameter section 10a of a shaft 10. Plural sheets of soft magnetic disc parts 12 and one auxiliary disc part 13 are pressure laminated alternately around the small diameter section 10b thus constituting a rotor core 11. The soft magnetic part 12 is composed of amorphous magnetic material having tensile strength higher than 200kg/mm² and the thickness thereof is in the range of 25-40 μ m. The soft magnetic part 12 is not subjected to sintering for improving the magnetic characteristic. By such arrangement, a soft magnetic part which is not broken during assembly or operation can be obtained.

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